

Chongqing University and IBS CTPU-CGA Joint Workshop on the Frontiers of Theoretical Cosmology

Wednesday 20 May 2026

Day 1: From Cosmological Bootstrap to the Wave Function of the Universe - 1F-9 (10:00-12:00)

-Conveners: Masahide Yamaguchi

| time | [id] title | presenter |
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| 10:00 | [80] An On-Shell Bootstrap Program of Cosmological Correlators | Prof. Zhong-Zhi Xianyu |
| 10:40 | [88] Bootstrap for Features in Cosmological Correlators | Dr Yuhang Zhu |
| 11:10 | [92] Bootstrapping Inflationary New Physics | Dr Dong-Gang Wang |

Day 1: Dark Sectors and Astrophysical Probes of Dark Matter - 1F-9 (13:30-15:30)

-Conveners: Zhong-Zhi Xianyu

| time | [id] title | presenter |
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| 13:30 | [57] Role of Dark Higgs Boson in (Astro)Particle Physics and Cosmology | Prof. Pyungwon Ko |
| 14:10 | [63] Boosted dark matter and directional direct detection | Prof. Takaaki Nomura |
| 14:50 | [52] Black Holes as Laboratory for Dark Matter | Dr Qianhang Ding |

Day 1: Gravitational-Wave Probes of Compact Objects and Early-Universe Perturbations - 1F-9 (16:00-18:10)

-Conveners: Sam Wong

| time | [id] title | presenter |
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| 16:00 | [56] Probing Fundamental physics with extreme mass ratio inspirals | Prof. Yungui Gong |
| 16:40 | [49] Gravitational Waves from Mergers of Asymmetric Dark Stars | Dr Boris Betancourt Kamenetskaia |
| 17:10 | [90] Radiation-reaction effects at 3PN order in scalar-tensor theories | Dr Eve Dones |
| 17:40 | [50] Non-perturbative evolution of the curvature perturbation during inflation. | Dr DIEGO CRUCES |